

CLAIMS LISTING

- 1.(original) A projectile comprising a ballast encased in a binder wherein said binder comprises a resin comprising linear chains of rigid polyamide segments interspaced with flexible poly ether segments and said projectile has a minimum specific gravity of 5.
- 2.(withdrawn) The projectile of claim 1 comprising about 6 to about 66%, by weight, said ballast and about 34-94%, by weight, said binder.
- 3.(withdrawn) The projectile of claim 2 comprising 45-49%, by weight, said ballast and 51-55%, by weight, said binder.
- 4.(original) The projectile of claim 1 wherein said binder further comprises a second resin.
- 5.(original) The projectile of claim 4 wherein said binder comprises about 10 to about 30%, by weight, said a resin comprising linear chains of rigid polyamide segments interspaced with flexible poly ether segments and about 70 to about 90%, by weight, said second resin.
- 6.(original) The projectile of claim 4 wherein said second resin is selected from a group consisting of nylon and polybutylene terephthalate.

- 7.(currently amended) The projectile of ~~claim 1~~ claim 4 wherein said ballast comprises at least one member selected from a group consisting of tungsten, tungsten carbide, molybdenum, tantalum, ferro-tungsten, copper, bismuth, iron, steel, brass, aluminium bronze, beryllium copper, tin, aluminium, titanium, zinc, nickel silver alloy, cupronickel and nickel.
- 8.(withdrawn) The projectile of claim 7 wherein said ballast comprises at least one member selected from a group consisting of tungsten, tungsten carbide, tantalum, molybdenum and ferro-tungsten.
- 9.(previously presented-withdrawn) A projectile comprising a ballast encased in a binder wherein said binder comprises a resin comprising linear chains of rigid polyamide segments interspaced with flexible poly ether segments and said projectile has a minimum specific gravity of 5 wherein said ballast consist essentially of tungsten.
- 10.(withdrawn) The projectile of claim 1 wherein said projectile has a minimum specific gravity of 10.
- 11.(withdrawn) The projectile of claim 1 wherein said binder further comprises a fiber.
- 12.(withdrawn) The projectile of claim 1 wherein said binder further comprises a lubricant.

13.(withdrawn) The frangible projectile of claim 1 further comprising a plasticizer.

14.(withdrawn) The frangible projectile of claim 13 wherein said plasticizer is a sulfonamide.

15.(withdrawn) The frangible projectile of claim 14 wherein said plasticizer is an aromatic sulfonamide.

16.(withdrawn) The frangible projectile of claim 15 wherein said plasticizer is n-butylbenzene sulfonamide.

17.(withdrawn) A frangible projectile comprising:
a binder comprising about 10-30%, by weight, a resin comprising linear chains of rigid polyamide segments interspaced with flexible poly ether segments;
a ballast comprising tungsten.

18.(withdrawn) The frangible projectile of claim 17 further comprising a plasticizer.

19.(withdrawn) The frangible projectile of claim 18 wherein said plasticizer is a sulfonamide.

20.(withdrawn) The frangible projectile of claim 19 wherein said plasticizer is an aromatic sulfonamide.

21.(withdrawn) The frangible projectile of claim 20 wherein said plasticizer is n-butylbenzene sulfonamide.

22.(original) A frangible projectile comprising:
34-94%, by weight, binder wherein said binder comprises a resin comprising linear chains of rigid polyamide

segments interspaced with flexible poly ether segments;
and

6-66%, by weight, ballast wherein said ballast comprises at least one member selected from a group consisting of tungsten, tungsten carbide, molybdenum, tantalum, ferro-tungsten, copper, bismuth, iron, steel, brass, aluminium bronze, beryllium copper, tin, aluminium, titanium, zinc, nickel silver alloy, cupronickel and nickel; and wherein said projectile has a specific gravity of about 5 to about 14.

23.(original) The frangible projectile of claim 22 wherein said projectile has a specific gravity of at least about 10.

24.(withdrawn) The frangible projectile of claim 23 wherein said projectile has a specific gravity of about 11 to about 11.5.

25.(previously presented-withdrawn) A frangible projectile comprising:

34-94%, by weight, binder wherein said binder comprises a resin comprising linear chains of rigid polyamide segments interspaced with flexible poly ether segments;
and

6-66%, by weight, ballast said ballast consist essentially of tungsten.

26.(original) The frangible projectile of claim 22 further comprising a second resin.

27.(original) The frangible projectile of claim 26 wherein said second resin is selected from a group consisting of nylon and polybutylene terephthalate.

28.(original) The frangible projectile of claim 26 wherein said second resin is nylon selected from a group consisting of nylon 6, nylon 6/6, nylon 11 and nylon 12.

29.(withdrawn) The frangible projectile of claim 22 wherein said binder further comprises a fiber.

30.(withdrawn) The frangible projectile of claim 29 wherein said fiber is an aramid.

31.(withdrawn) The frangible projectile of claim 22 wherein said binder further comprises a lubricant.

32.(withdrawn) The frangible projectile of claim 31 wherein said lubricant is at least one material chosen from a group consisting of molybdenum disulfide, silicone, polytetrafluoroethylene and mineral oil.

33.(previously presented-withdrawn) A projectile comprising a ballast encased in a binder wherein said binder comprises a resin comprising linear chains of rigid polyamide segments interspaced with flexible poly ether segments and said projectile has a minimum specific gravity of 5 wherein said ballast consist of tungsten

carbide, molybdenum, tantalum, ferro-tungsten, copper,
bismuth, iron, steel, brass, aluminium bronze, beryllium
copper, tin, aluminium, titanium, zinc, nickel silver
alloy, cupronickel and nickel.